

**GOVERNMENT OF INDIA
SPACE
LOK SABHA**

UNSTARRED QUESTION NO:2390

ANSWERED ON:30.11.2016

Indigenous Satellites

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Will the Minister of SPACE be pleased to state:

- (a) the number of indigenous satellites successfully placed into the space orbit by India during the last three years along with the number of satellites which got destroyed before being placed in the orbit;
- (b) whether other countries have used the information given by the satellites which have been placed into the orbit for their own interests without the knowledge of our Government and if so, the details thereof;
- (c) the number of satellites which our Government have placed into the orbit with the help of other countries along with the cost involved therein and the present status of these satellites at present;
- (d) whether some countries want to take help of Indian Spacecraft launching stations to launch their satellites; and
- (e) if so, the details thereof?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE
(DR. JITENDRA SINGH):

(a) During last three years i.e. during 2013-14, 2014-15 and 2015-16, fourteen (14) indigenously built satellites have been successfully placed in their orbit. During the above said period, no satellite got destroyed before being placed in the desired orbit or in the orbit.

(b) No Madam.

(c) As on date, 29 satellites have been launched from outside the country. Out of these, for 3 satellites (Aryabhata, Bhaskara-1 & Bhaskara-2) free launch was provided by Russia as part of Indo-Soviet friendship and for 1 satellite (Apple), Ariane offered a free launch in their developmental flight. Remaining satellites were launched by hiring launch services on a commercial basis. The details are attached in Annexure-1.

(d) & (e)

The Indian satellite launching station, located at Sriharikota, is used exclusively for launch vehicles developed by ISRO. While 79 foreign satellites from 21 countries have already been launched into orbit using ISRO's Polar Satellite Launch Vehicle under commercial arrangements with Antrix Corporation Limited (Antrix), agreements have been signed for launching 109 foreign satellites from 10 countries viz. Canada, Germany, Israel, Italy, Japan, Kazakhstan, Malaysia, Netherlands, Switzerland and USA. The launches of these foreign satellites are envisaged by December 2018.

Annexure-1

Annexure referred to in reply to part (c) of Lok Sabha Unstarred Question No. 2390 for answer on 30/11/2016

Satellites launched with the support from other countries

SN Satellite Country Launch Date Launch Cost

(Rs. in Crores) Present Status

1 Aryabhata Russia 19-04-1975 free India's first experimental satellite. Mission completed

2 Bhaskara-1 Russia 07-06-1979 free Mission completed

3 Bhaskara-2 20-11-1981 free Mission completed

4 Apple France 19-06-1981 free Mission completed

5 INSAT-1A United States of America 10-04-1982 468.57 Failed in Orbit

6 INSAT-1B 30-08-1983 Mission Completed

7 INSAT-1C 22-07-1988 Mission Completed

8 INSAT-1D 12-06-1990 Mission Completed

9 IRS-1A Russia 17-03-1988 7.50 Mission Completed

10 IRS-1B 29-08-1991 31.80 Mission Completed

11 INSAT-2A France 10-07-1992 785.10 Mission Completed

12 INSAT-2B 23-07-1993 Mission Completed

13 INSAT-2C 07-12-1995 Mission Completed

14 INSAT-2D 04-06-1997 Failed in orbit

15 INSAT-2E 03-04-1999 Mission Completed

16 IRS-1C Russia 28-12-1995 60.31 Mission Completed

17 INSAT-3A France 10-04-2003 2273.63 Working 1 ½ years beyond Designed Life

18 INSAT-3B 22-03-2000 Mission Completed

19 INSAT-3C 24-01-2002 Working 2 ½ years beyond Designed Life
20 INSAT-3D 26-07-2013 Expected life 4 more Years
21 INSAT-3E 28-09-2003 Mission Completed
22 INSAT-4A France 22-12-2005 875.00 Expected life 1 ½ more Years
23 INSAT-4B 12-03-2007 Expected life 2 ½ more Years
24 GSAT-7 France 30-08-2013 485.29 Expected life 4 more Years
25 GSAT-8 France 21-05-2011 297.00 Expected life 6 ½ more Years
26 GSAT-10 France 29-09-2012 406.82 Expected life 11 more Years
27 GSAT-15 France 11-11-2015 601.19 Expected life 11 more Years
28 GSAT-16 France 07-12-2014 581.00 Expected life 10 ½ more Years
29 GSAT-18 France 06-10-2016 458.69 Expected life 15 more Years